

Atchison County

8/26/2020

Background Statistics¹

Number of farms: 595

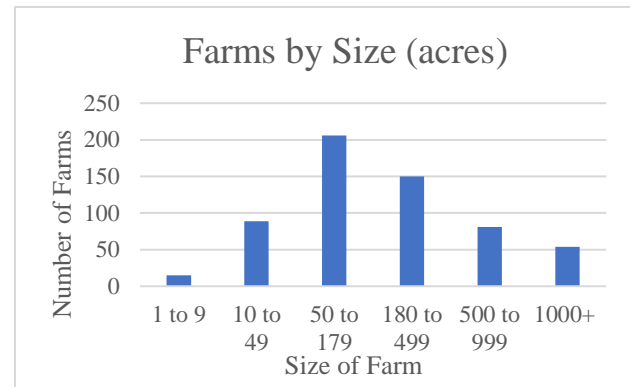
Average size: 396 acres

Land in farms: 235,896 acres

Average value of products sold per farm: \$143,201

Average net cash farm income per farm: \$48,308

1: Data from USDA 2017 Census of Agriculture



Estimated Economic Contribution of Agriculture and Agriculture Related Sectors to the Atchison County Economy

Methodology

The estimated economic contribution of agriculture and agriculture related sectors was computed using the most recent IMPLAN data available (2018) adjusted for 2020. The IMPLAN modeling system was used to calculate the results of this analysis. The IMPLAN model was constructed so that double counting was avoided. For this report, 27 of the 71 agriculture and agriculture related sectors in Kansas were identified and analyzed to determine their overall contribution to the Atchison County economy.

Results

These 27 sectors have a total direct output of approximately **\$597.3 million** and account for **1,275 jobs** in Atchison County. Running the model for all 27 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Atchison County Economy					
Contribution Type	Employment	% Employment	Total Value Added	% of Gross Regional Product	Output
Direct Effect	1,275	16%	\$153,600,000	24%	\$597,300,000
Indirect Effect	325	4%	\$36,900,000	6%	\$74,900,000
Induced Effect	259	3%	\$18,600,000	3%	\$33,300,000
Total Effect	1,859	23%	\$209,100,000	33%	\$705,500,000

NOTE: Individual effects may not equal the total effect due to rounding.

As shown in the above table, agriculture, food, and food processing sectors support a total of **1,859 jobs**, or **23%** of the entire workforce in the county. The total final sales of all products in these sectors is approximately **\$705.5 million**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of Gross Regional Product (GRP). Total value added by the 27 agriculture, food, and food processing sectors is approximately **\$209.1 million**, or **33%** of the GRP.

Top Ten Sectors by Employment

Out of the agriculture and agriculture related sectors, beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming is the top employer with **343 jobs**. This table also illustrates the top ten sectors by total employment, including direct, indirect, and induced effects in Atchison County.

Sector	Total Employment
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	343
Flour milling	191
Other snack food manufacturing	185
Grain farming	134
Leather and hide tanning and finishing	70
Landscape and horticultural services	62
Other real estate	52
Support activities for agriculture and forestry	50
All other crop farming	45
Bottled and canned soft drinks & water	42

Top Ten Sectors by Output

This table shows how much revenue is generated in other sectors by having a strong agriculture industry, including direct, indirect, and induced effects. The flour milling sector is the top contributor, with approximately **\$269.3 million** to the Atchison County economy.

Sector	Total Output
Flour milling	\$269,300,000
Other snack food manufacturing	\$100,400,000
Other animal food manufacturing	\$50,900,000
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$36,900,000
Grain farming	\$33,500,000
Bottled and canned soft drinks & water	\$31,800,000
Oilseed farming	\$31,800,000
Rail transportation	\$20,500,000
Leather and hide tanning and finishing	\$19,800,000
Dairy cattle and milk production	\$8,700,000

All Direct Sectors

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Atchison County economy. IMPLAN sectors are assigned based on North American Industry Classification System (NAICS) codes. Generally, this analysis includes three categories; production, manufacturing/processing, and services. Note that this analysis does not include wholesale or retail sales of final products, or ethanol production.

Sector	Total Output	Total Employment
Flour milling	\$269,252,200.80	190.53
Other snack food manufacturing	\$100,444,565.87	185.46
Other animal food manufacturing	\$50,916,776.93	39.92
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$36,910,273.21	343.23
Grain farming	\$33,467,718.64	133.81
Bottled and canned soft drinks & water	\$31,793,275.12	41.97
Oilseed farming	\$31,789,900.39	37.01
Leather and hide tanning and finishing	\$19,837,284.23	69.73
Dairy cattle and milk production	\$8,703,917.94	19.98
Landscape and horticultural services	\$3,093,191.54	62.20
Support activities for agriculture and forestry	\$2,559,129.69	50.04
Veterinary services	\$2,231,477.02	23.11
All other crop farming	\$1,352,718.57	45.05
Bread and bakery product, except frozen, manufacturing	\$788,752.56	6.16
Farm machinery and equipment manufacturing	\$716,677.58	2.10
Other leather and allied product manufacturing	\$628,291.22	6.35
Poultry and egg production	\$604,043.80	0.85
Frozen cakes and other pastries manufacturing	\$537,749.62	6.17
Animal production, except cattle and poultry and eggs	\$405,355.35	3.41
Greenhouse, nursery, and floriculture production	\$375,044.21	2.82
Roasted nuts and peanut butter manufacturing	\$288,391.62	0.72
Vegetable and melon farming	\$287,029.38	2.07
Sawmills	\$183,900.17	0.65
Commercial logging	\$66,142.17	0.72
Fruit farming	\$53,436.26	0.43
Forestry, forest products, and timber tract production	\$50,571.82	0.69
Tree nut farming	\$7,742.20	0.16

The following terms are used throughout the results shown in this report:

- **Direct effect:** the contribution from agricultural and food products
- **Indirect effect:** the contribution from farms and agricultural businesses purchasing inputs from supporting industries within the state
- **Induced effect:** the contribution from employees of farms, agricultural businesses, and supporting industries spending their wages on goods and services within the state
- **Value added** = labor income + indirect business taxes + other property type income
- **Gross Regional Product** = final demand of households + government expenditures + capital + exports – imports – institutional sales
- **Output** = intermediate inputs + value added
- **Employment:** full-time/part-time annual average i.e., 1 job lasting 12 months = 2 jobs lasting 6 months each = 3 jobs lasting 4 months each. A job is neither full-time nor part-time.
- Due to confidentiality policies that exist within several agencies from which IMPLAN collects their data, some sectors in some regions may not have all data available.

For more information, contact the Division of Agricultural Marketing, Advocacy and Outreach Agency Economist
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